Micro-Power Broadcasters!

The Task of TIS Stations

BY PATRICK M. GRIFFITH

The Denver metro area is alive with Travelers Information Stations, thanks to the Colorado State Department of Highways (CDOT) and a major construction project involving both the I-25 and I-70, and the I-25 and I-76 interchanges.

The CDOT is operating six TIS stations in Denver (see chart 1); the CDOT refers to these as HAR stations (Highway Advisory Radio). All Denver stations use 10-watt transmitters operating on 530 kHz with the call sign WNSV510. The system is tied in to the I-25 Hotline which also is accessible by telephone (303-573-ROAD) and provides construction and road closure information for the I-25 corridor.

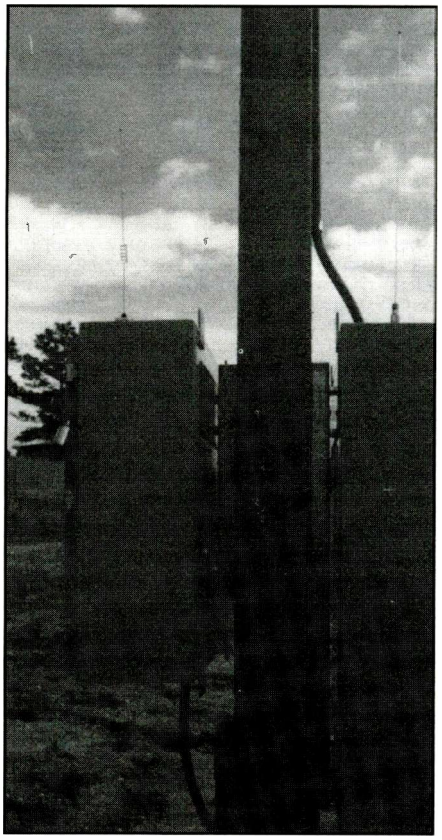
The headquarters for this system is in a construction trailer located at the I-70/I-25 interchange. Each HAR transmitter site is equipped with the AM transmitter feeding a center loaded monopole antenna, an electronic recording device which holds the continuous taped messages, and a cellular telephone interlink. The system operator is able to dial the individual transmitter sites by telephone and, using a special set of access codes, enter the individual recorded messages for that particular site. Persons traveling on I-25, I-70, I-76, or US 36 are advised by large roadside signs to listen to the HAR transmitters for current construction and detour information.

Information sign for construction.

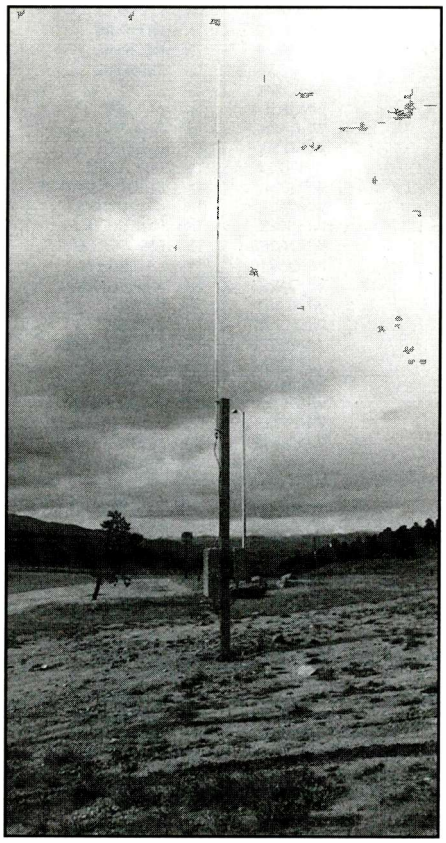
There are plans for the HAR system to remain intact after the construction project is complete. It also is to become part of the planned CDOT Traffic Operations Center providing real time traffic information to

Transmitter control boxes and antenna base.

Information sign next to transmitter site.



Transmitter and control boxes.



Overview of antenna and control boxes.

Chart 1.

CDOT Denver Station 1	I-25 near 136th Ave.
CDOT Denver Station 2	I-76 at SH-51
CDOT Denver Station 3	I-70 at Gun Club Rd.
CDOT Denver Station 4	I-25 at Lincoln Ave.
CDOT Denver Station 5	I-70 at Genesee
CDOT Denver Station 6	US-36 at SH-121

daily commuters throughout the metro Denver area.

An additional TIS station, also on 530 kHz, was in operation at Stapleton International Airport for several years. This station, provided traffic and parking information for the area in and around Stapleton Airport, was operated by the City and County of Denver. The transmitter site was located adjacent to westbound I-70 just west of the airport tunnels and used a top loaded monopole antenna.

TIS stations seem to be enjoying an increasing popularity throughout the U.S. While some other stations may still exist on 1610 kHz, this frequency will be eliminated with the new AM band plan. However, many new stations are popping up constantly on 530 kHz. Give it a listen and see what's on the air in your area. You may be surprised how far those low-power transmitters can be heard. ■

Here is a listing of Travelers Information Stations licensed by the FCC on 1610 kHz:

State	City	Licensee	Callsign
AZ	PHOENIX	PHOENIX, CITY OF	WXK790
CA		CALIFORNIA, STATE OF	KNEC996
CA	BAXTER	CALIFORNIA, STATE OF	WNQS653
CA	BERKELEY	BERKELEY, CITY OF	WNZV591
CA	BURNEY	CALIFORNIA, STATE OF	WPFK506
CA	BUTTONWILLOW	CALIFORNIA, STATE OF	WNXK966
CA	CHILCOOT	CALIFORNIA, STATE OF	WPFK508
CA	CHULA VISTA	CHULA VISTA, CITY OF	WNUB568
CA	DESCANSO	CALIFORNIA, STATE OF	WNDQ665
CA	FAIRFIELD	CALIFORNIA, STATE OF	WPBW809
CA	FAIRFIELD	CALIFORNIA, STATE OF	WPBW809
CA	GILROY	GILROY, CITY OF	WNKB689
CA	GOLD RUN	CALIFORNIA, STATE OF	WNQS653
CA	GREENFIELD	CALIFORNIA, STATE OF	WNXK966
CA	HILT	CALIFORNIA, STATE OF	WNJR464
CA	IDYLLWILD	IDYLLWILD FIRE PROTECTION DISTRICT	WNKI578
CA	LANCASTER	CALIFORNIA, STATE OF	WPEA446
CA	LOS ALTOS HILLS	FOOTHILL DEANZA COMMUNITY COLLEGE DIST	KNIP553
CA	LOST HILLS	CALIFORNIA, STATE OF	WNXK966
CA	MC FARLAND	CALIFORNIA, STATE OF	WNXK966
CA	MILPITAS	MILPITAS, CITY OF	WPFE596
CA	MONTEREY	MONTEREY, CITY OF	WNHN752
CA	MORGAN HILL	MORGAN HILL, CITY OF	WNUU667
CA	MOUNT SHASTA	CALIFORNIA, STATE OF	WPFK506
CA	NEWARK	NEWARK, CITY OF	WNMQ214
CA	NOVATO	CALIFORNIA, STATE OF	WPBW721
CA	OLD RIVER	CALIFORNIA, STATE OF	WNXK966
CA	RED BLUFF	CALIFORNIA, STATE OF	WPFK506
CA	REDDING	REDDING, CITY OF	WNQM848
CA	REDWOOD CITY	CALIFORNIA, STATE OF	WPBW813
CA	SAN BRUNO	SAN FRANCISCO, CITY AND COUNTY OF	WNXY470
CA	SAN DIEGO	SAN DIEGO, CITY OF	WNPF405
CA	SAN LEANDRO	SAN LEANDRO, CITY OF	WNSV220
CA	SAN RAFAEL	CALIFORNIA, STATE OF	WPBW721
CA	SAN RAMON	SAN RAMON, CITY OF	WNUW920
CA	SANTA CLARITA	CALIFORNIA, STATE OF	WPET708
CA	SARATOGA	SARATOGA, CITY OF	WNWN392
CA	SODA SPRINGS	CALIFORNIA, STATE OF	WNQS653
CA	SPRINGVILLE	CALIFORNIA, STATE OF	WPDU922
CA	SUSANVILLE	CALIFORNIA, STATE OF	WPFK508
CA	TEHACHAPI	KERN, COUNTY OF	WNYD243
CA	VALLEJO	CALIFORNIA, STATE OF	WPBW809
CA	YREKA	CALIFORNIA, STATE OF	WPFK506
CA	FULLERTON	CALIFORNIA STATE UNIVERSITY FULLERTON	WNZF285
CA	PEBBLE BEACH	PEBBLE BEACH COMMUNITY SERVICES DISTRICT	WNZA955
CO	BLANCA	RIO GRANDE COUNTY TOURISM PANEL	WPDE484
CO	GYPSUM	COLORADO, STATE OF	WNFN793
CO	NEW CASTLE	COLORADO, STATE OF	WNFN793
CO	SOUTH FORK	SAN LUIS VALLEY TOURISM COUNCIL	WPDE843
CT	WINDSOR	CONNECTICUT, STATE OF	WPBX388
FL		FLORIDA, STATE OF	WNNC526
FL	CAPE CORAL	LEE, COUNTY OF	WNZG591
FL	LAKELAND	LAKELAND, CITY OF	WPEP788
FL	SAINT AUGUSTINE	FLORIDA, STATE OF	WPAC848
FL	SUNRISE	SUNRISE, CITY OF	WPDA943
FL	TAMPA	HILLSBOROUGH COUNTY AVIATION AUTHORITY	WYZ235
FL	MIAMI	MONROE, COUNTY OF	WPDP219
FL	MIAMI	MONROE, COUNTY OF	WNZI289
GA		GEORGIA, STATE OF	WPBN694
GA	COLUMBUS	COLUMBUS, CITY OF	WNQB789
GA	COLUMBUS	COLUMBUS, CITY OF	WNQB789
GA	COLUMBUS	COLUMBUS, CITY OF	WNQB789
IA	AMES	IOWA, STATE OF	WNKX409
ID	STANLEY	IDAHO, STATE OF	WPBF213
IL	ADDISON	ILLINOIS, STATE OF	KNIG426
IL	BLOOMINGTON	MCLEAN COUNTY BLOOMINGTON NORMAL AREA	WPFE400
IL	CHICAGO	ILLINOIS, STATE OF	KMB824
IL	CHICAGO	ILLINOIS, STATE OF	KNAP828
IL	CHICAGO	ILLINOIS, STATE OF	WNHX776
IL	HILLSIDE	ILLINOIS, STATE OF	KNIG425
IL	MORRIS	ILLINOIS, STATE OF	WPCK899
IL	NAPERVILLE	NAPERVILLE, CITY OF	WPFP929
IL	NAPERVILLE	NAPERVILLE, CITY OF	WPFP929
IL	NORTHFIELD	ILLINOIS, STATE OF	KMH441
IL	PRINCETON	BUREAU, COUNTY OF	WPBC251
IL	UTICA	ILLINOIS, STATE OF	WPCE615
IL	BENSENVILLE	BENSENVILLE, VILLAGE OF	WNWZ910
IL	GLEN ELLYN	GLEN ELLYN, VILLAGE OF	WNYB218
IN	BLOOMINGTON	INDIANA UNIVERSITY	WPCD785
IN	FORT WAYNE	FORT WAYNE ALLEN COUNTY AIRPORT AUTH	WPDM638
IN	NASHVILLE	INDIANA, STATE OF	KNJ419
IN	WESTPORT	WESTPORT, TOWN OF	WPEW774
KS	BONNER SPRINGS	KANSAS TURNPIKE AUTHORITY	WPFT994
KY		JEFFERSON, COUNTY OF	WPCI801
KY	CORBIN	KENTUCKY. STATE OF	WPAB672
KY	ERLANGER	KENTON, COUNTY OF	WXT613
KY	GEORGETOWN	LEXINGTON FAYETTE URBAN COUNTY GOVT	WNSK323
KY	HEBRON	KENTON, COUNTY OF	WZM835
KY	HORSE CAVE	HART, COUNTY OF	WNZM566
KY	PADUCAH	PADUCAH, CITY OF	WNWU238
KY	SHEPARDSVILLE	BULLITT, COUNTY OF	WPDU908
KY	SLADE	POWELL, COUNTY OF	WPFJ380
MA		MASSACHUSETTS TURNPIKE AUTHORITY	WPBJ564
MA	FALMOUTH	MASSACHUSETTS, COMMONWEALTH OF	WNSX853
MA	WELLFLEET	WELLFLEET, TOWN OF	WPBZ578
MD	ARNOLD	MARYLAND, STATE OF	WNQA286

MD	BALTIMORE	MARYLAND, STATE OF	WNVP742
MD	BALTIMORE	MARYLAND, STATE OF	WPCT627
MD	BALTIMORE	MARYLAND, STATE OF	WPCT627
MD	BRADSHAW	MARYLAND, STATE OF	WNVY509
MD	CAMBRIDGE	MARYLAND, STATE OF	WPED444
MD	CUMBERLAND	MARYLAND, STATE OF	WNQA284
MD	DENTON	MARYLAND, STATE OF	WNQA288
MD	DORSEY	MARYLAND, STATE OF	WNVY506
MD	ELKTON	MARYLAND, STATE OF	WPEP712
MD	HANOVER	MARYLAND, STATE OF	WPEI224
MD	MYERSVILLE	MARYLAND, STATE OF	WNQA287
MD	OCEAN CITY	MARYLAND, STATE OF	WPFJ882
MD	PINEY GROVE	MARYLAND, STATE OF	WNQA285
MD	QUEENSTOWN	MARYLAND, STATE OF	WNQA289
MD	SALISBURY	MARYLAND, STATE OF	WNQA283
MD	WILLIAMSPORT	MARYLAND, STATE OF	WNSL338
MI	HALE	IOSCO, COUNTY OF	WNZT718
MI	IRONWOOD	GOGEBIC, COUNTY OF	WNVK872
MI	MACKINAW CITY	MICHIGAN, STATE OF	WNHC787
MI	MONROE	MICHIGAN, STATE OF	WNLH734
MI	OSCODA	IOSCO, COUNTY OF	WNZT718
MI	OSCODA	IOSCO, COUNTY OF	WNZT718
MN		MINNESOTA, STATE OF	WPBX286
MN		MINNESOTA, STATE OF	WNMQ215
MN	CALUMET	MINNESOTA, STATE OF	WNAN940
MN	CHISHOLM	MINNESOTA, STATE OF	WNAN940
MN	EVELETH	MINNESOTA, STATE OF	WNAN940
MN	GRAND RAPIDS	MINNESOTA, STATE OF	WNAN940
MN	WOODBURY	WISCONSIN, STATE OF	WNVK825
MO	KANSAS CITY	MISSOURI, STATE OF	WPBE684
MO	KANSAS CITY	KANSAS CITY, CITY OF	WQI284
MS	VICKSBURG	VICKSBURG, CITY OF	WNMV556
MT	DARBY	MONTANA, STATE OF	WNUI261
NC	CHAPEL HILL	UNIVERSITY OF N CAROLINA AT CHAPEL HILL	WNJW446
NC	GREENSBORO	GREENSBORO, CITY OF	WPED201
NC	MORRISVILLE	RALEIGH DURHAM AIRPORT AUTHORITY	WNBR326
NC	NEW BERN	NORTH CAROLINA, STATE OF	WNHQ550
NC	SUPPLY	NORTH CAROLINA, STATE OF	WNHQ550
NE	LINCOLN	LINCOLN, CITY OF	WNQF965
NE	LINCOLN	LINCOLN, CITY OF	WNQF965
NH	FRANCONIA	NEW HAMPSHIRE, STATE OF	WNCF832
NH	GILFORD	BELKNAP, COUNTY OF	WNLV527
NH	LINCOLN	NEW HAMPSHIRE, STATE OF	WNCF832
NH	NASHUA	NEW HAMPSHIRE, STATE OF	WNUE384
NJ		NEW JERSEY TURNPIKE AUTHORITY	WPAS759
NJ	BORDENTOWN	NEW JERSEY TURNPIKE AUTHORITY	WPFP978
NJ	CARNEYS POINT	NEW JERSEY TURNPIKE AUTHORITY	WPEI435
NJ	CRANBURY	NEW JERSEY TURNPIKE AUTHORITY	WPAS758
NJ	ELIZABETH	NEW JERSEY TURNPIKE AUTHORITY	WPAS758
NJ	JAMESBURG	NEW JERSEY TURNPIKE AUTHORITY	WPFP986
NJ	MOORESTOWN	NEW JERSEY TURNPIKE AUTHORITY	WPAS758
NJ	RUNNEMEDE	NEW JERSEY TURNPIKE AUTHORITY	WPEI435
NJ	WOODBRIDGE	NEW JERSEY TURNPIKE AUTHORITY	WPFQ441
NJ	NORTH ARLINGTON	NORTH ARLINGTON, BOROUGH OF	WNWN396
NY		NEW YORK, STATE OF	WPCP724
NY		NEW YORK, STATE OF	WPCP724
NY		NEW YORK, STATE OF	WPCP724
NY		NEW YORK, STATE OF	WPFM233
NY		NEW YORK, STATE OF	WPFI377
NY		WESTCHESTER, COUNTY OF	WNZV592
NY	ALBANY	NEW YORK, STATE OF	WNVV205
NY	BLASDELL	NEW YORK STATE THRUWAY AUTHORITY	WPAN997
NY	BOWMANSVILLE	NEW YORK STATE THRUWAY AUTHORITY	WPAN997
NY	BUFFALO	NEW YORK STATE THRUWAY AUTHORITY	WPAN997
NY	BUFFALO	NEW YORK STATE THRUWAY AUTHORITY	WPAN997
NY	NIAGRA	NEW YORK STATE THRUWAY AUTHORITY	WPAN997
NY	RYE	WESTCHESTER, COUNTY OF	WNZY224
NY	TONAWANDA	NEW YORK STATE THRUWAY AUTHORITY	WPAN997
NY	WHITE PLAINS	WESTCHESTER, COUNTY OF	WNZY224
NY	ROOSEVELT ISLAND	ROOSEVELT ISLAND OPERATING CORP	WNZE748
OH		AKRON, CITY OF	WNZD692
OH	BATAVIA	CLERMONT, COUNTY OF	WNWC842
OH	DUBLIN	DUBLIN, CITY OF	WNXY474
OH	ELYRIA	LORAIN, COUNTY OF	WNXM360
OH	MARYSVILLE	UNION COUNTY AIRPORT AUTHORITY	KNCK692
OH	TOLEDO	TOLEDO, CITY OF	WNMJ728
OK		OKLAHOMA, STATE OF	WNWU499
OR	ALBANY	ALBANY, CITY OF	WPBS250
OR	BERRY BOGS	OREGON STATE UNIVERSITY	WPFI870
OR	CASCADE LOCKS	IDAHO, STATE OF	WPCF304
OR	REEDSPORT	OREGON, STATE OF	WNLA427
OR	THE DALLES	THE DALLES, PORT OF	KNAX787
OR	THE DALLES	IDAHO, STATE OF	WPCA547
OR	VINEMAPLE	OREGON STATE UNIVERSITY	WPED431
PA		PENNSYLVANIA, COMMONWEALTH OF	WPDX549
PA		PENNSYLVANIA, COMMONWEALTH OF	WPEA856
PA	CLARKS SUMMIT	PENNSYLVANIA, COMMONWEALTH OF	WPEX992
PA	CRANBERRY	PENNSYLVANIA, COMMONWEALTH OF	WPFK879
PA	DALEVILLE	PENNSYLVANIA, COMMONWEALTH OF	WPEX992
PA	HAZLETON	PENNSYLVANIA, COMMONWEALTH OF	WPBG740
PA	PHILADELPHIA	PHILADELPHIA, CITY OF	WPCA647
PA	PHILADELPHIA	PHILADELPHIA, CITY OF	WPCD802
PA	WASHINGTON	PENNSYLVANIA, COMMONWEALTH OF	WPFS415
PA	WILKES BARRE	PENNSYLVANIA, COMMONWEALTH OF	WPEX992
SC	CHARLESTON	CHARLESTON, CITY OF	WPAA521
SC	FLORENCE	SOUTH CAROLINA, STATE OF	WNWM882
SC	GREENVILLE	GREENVILLE, COUNTY OF	WPDY958
TN	CHARLESTON	TENNESSEE, STATE OF	WPED202
TN	MEMPHIS	MEMPHIS SHELBY COUNTY AIRPORT AUTHORITY	WNDX581
TN	MEMPHIS	MEMPHIS SHELBY COUNTY AIRPORT AUTHORITY	WNDX581
TN	MEMPHIS	MEMPHIS SHELBY COUNTY AIRPORT AUTHORITY	WNDX581
TX		TEXAS, STATE OF	WNQU737
TX	AUSTIN	AUSTIN, CITY OF	WNGV539
TX	AUSTIN	LOWER COLORADO RIVER AUTHORITY	WPEZ840
TX	BASTROP	LOWER COLORADO RIVER AUTHORITY	WPEZ840
TX	BAYTOWN	BAYTOWN, CITY OF	WNZF322
TX	BUCHANAN DAM	LOWER COLORADO RIVER AUTHORITY	WPEZ840
TX	GLEN ROSE	SOMERVELL, COUNTY OF	WNPD413
TX	HOUSTON	HOUSTON, CITY OF	KON247
TX	KINGSVILLE	KINGSVILLE, CITY OF	WPDP335
TX	LA GRANGE	LOWER COLORADO RIVER AUTHORITY	WPEZ840
TX	MARBLE FALLS	LOWER COLORADO RIVER AUTHORITY	WPEZ840
TX	PECOS	PECOS CITY, TOWN OF	WPDG260
TX	PRESIDIO	PRESIDIO, CITY OF	WPBZ896
TX	SAN ANTONIO	SAN ANTONIO, CITY OF	KNDX476
TX	VAN HORN	VAN HORN, CITY OF	WNMM758
TX	CHANNELVIEW	CHANNELVIEW, CITY OF	WPAM217
UT	PANGUITCH	GARFIELD, COUNTY OF	WPBE828
VA		VIRGINIA, COMMONWEALTH OF	WPDF247
VA	HARRISONBURG	VIRGINIA, STATE OF	WNYU723
VA	PETERSBURG	PETERSBURG, CITY OF	WNVV209
WA	CLE ELUM	WASHINGTON, STATE OF	KNEF687
WA	ELLENSBURG	WASHINGTON, STATE OF	KNEF687
WA	FIFE	TACOMA, CITY OF	WNAN648
WA	HYAK	WASHINGTON, STATE OF	KNEF687
WA	MONROE	WASHINGTON, STATE OF	WNHC788
WA	NORTHBEND	WASHINGTON, STATE OF	KNEF687
WA	OTHELLO	OTHELLO, CITY OF	WPEA526
WA	PORT ANGELES	PORT ANGELES, CITY OF	WNVQ843
WA	SEATTLE	SEATTLE, CITY OF	WPAM591
WA	SPOKANE	SPOKANE, COUNTY OF	WNHL839
WA	SPOKANE	SPOKANE, COUNTY OF	WNHL839
WA	TOUTLE	WASHINGTON, STATE OF	KNFG751
WI	HAMMOND	WISCONSIN, STATE OF	WNVK825
WI	KENOSHA	WISCONSIN, STATE OF	WNQD828
WI	LAKE DENTON	WISCONSIN, STATE OF	WPBS303
WI	MILWAUKEE	MILWAUKEE, COUNTY OF	WNKP332
WI	MILWAUKEE	MILWAUKEE, COUNTY OF	WNUC908
WI	OAKDALE	WISCONSIN, STATE OF	WPBS303
WY	SHERIDAN	SHERIDAN, COUNTY OF	WNII729

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State	City	Licensee	Callsign
AL	BURKVILLE	LOWNDES, COUNTY OF	WNZB547
CA		CALIFORNIA, STATE OF	KNEC996
CA		OREGON, STATE OF	KD40826
CA	BURBANK	BURBANK GLENDALE PASADENA AIRPORT AUTH	WNCM749
CA	CASTAIC	LOS ANGELES, COUNTY OF	WNWZ660
CA	CORONADO	CORONADO, CITY OF	WNAG556
CA	ESCONDIDO	NORTH COUNTY TRANSIT DISTRICT	WNRS426
CA	JACKSON	JACKSON, CITY OF	WNYJ775
CA	LIVERMORE	ALAMEDA, COUNTY OF	WNXY861
CA	LIVERMORE	ALAMEDA, COUNTY OF	WNXY857
CA	LOS ALTOS	LOS ALTOS, CITY OF	WNUT422
CA	LOS ANGELES	LOS ANGELES, CITY OF	WNHV296
CA	MARTINEZ	MARTINEZ, CITY OF	WNWN611
CA	MILL VALLEY	MILL VALLEY, CITY OF	WPCA648
CA	MILL VALLEY	MILL VALLEY, CITY OF	WPBX287
CA	NEWPORT BEACH	NEWPORT BEACH, CITY OF	WNRG513
CA	OAKLAND	OAKLAND, CITY OF	WNSA852
CA	OCEANSIDE	NORTH COUNTY TRANSIT DISTRICT	WNRS428
CA	ORINDA	CONTRACOSTA, COUNTY OF	WNZP312
CA	PASADENA	PASADENA, CITY OF	WNNL841
CA	PASADENA	PASADENA, CITY OF	WNNL840
CA	PASADENA	PASADENA, CITY OF	WNNL839
CA	PISMO BEACH	PISMO BEACH, CITY OF	WNQV784
CA	PLACERVILLE	CALIFORNIA, STATE OF	KNIG427
CA	SACRAMENTO	SACRAMENTO, COUNTY OF	WNIG247
CA	SAN BERNARDINO	CALIFORNIA, STATE OF	KNCN250
CA	SAN JOAQUIN	CALIFORNIA, STATE OF	WPFK507
CA	SAN JOSE	SAN JOSE INTERNATIONAL AIRPORT	WNPZ947
CA	SAN YSIDRO	CALIFORNIA, STATE OF	WNSB415
CA	SARATOGA	SARATOGA, CITY OF	WNUU828
CA	SIMI VALLEY	SIMI VALLEY, CITY OF	WNHI810
CA	SOUTH DOSPALOS	CALIFORNIA, STATE OF	WPFK507
CA	SUNNYVALE	SUNNYVALE, CITY OF	WNSA851
CA	TEHACHAPI	KERN, COUNTY OF	WNYD244
CA	TRUCKEE	CALIFORNIA, STATE OF	KNEU564
CA	VISTA	NORTH COUNTY TRANSIT DISTRICT	WNRS427
CA	WEST LAKE VILLAGE	WEST LAKE VILLAGE, CITY OF	WNUE976
CO		COLORADO, STATE OF	WPDF598
CO	AURORA	COLORADO, STATE OF	WNPC752
CO	AURORA	COLORADO, STATE OF	WNSV510
CO	AURORA	COLORADO, STATE OF	WNSV510
CO	BLACKHAWK	CENTRAL, CITY OF	WPBN521
CO	BRECKENRIDGE	BRECKENRIDGE, TOWN OF	WNLB703
CO	BRIGHTON	COLORADO, STATE OF	WNSV510
CO	BROOMFIELD	COLORADO, STATE OF	WNSV510
CO	COLORADO SPRINGS	COLORADO, STATE OF	WNVN816
CO	CORTEZ	COLORADO, STATE OF	WNUB567
CO	DENVER	DENVER, CITY AND COUNTY OF	KNID798
CO	GEORGETOWN	COLORADO, STATE OF	WNPZ394

CO	GOLDEN	COLORADO, STATE OF	WNSV510
CO	LOVELAND	COLORADO, STATE OF	WPCB931
CO	MANITOU SPRINGS	MANITOU SPRINGS, CITY OF	WNWQ728
CO	MONTROSE	COLORADO, STATE OF	WNPH810
CO	PUEBLO	COLORADO, STATE OF	WNVS403
CO	THORNTON	COLORADO, STATE OF	WNSV510
CO	DENVER	DENVER, CITY AND COUNTY OF	WPDI548
CT	EAST HARTFORD	CONNECTICUT, STATE OF	WNQN649
CT	NEW LONDON	NEW LONDON, CITY OF	WPBX693
CT	PORTLAND	CONNECTICUT, STATE OF	WNUS412
DC	WASHINGTON	METROPOLITAN WASHINGTON AIRPORT AUTH	WPEZ462
DE		DELAWARE, STATE OF	WNRZ656
FL		FLORIDA, STATE OF	WNNC526
FL	FLORIDA CITY	HOMESTEAD, CITY OF	WPAC338
FL	FORT MYERS	LEE COUNTY PORT AUTHORITY	WNXF933
FL	LAKE CITY	COLUMBIA, COUNTY OF	WNMY250
FL	MIAMI	MIAMI INTERNATIONAL AIRPORT AUTHORITY	WNQM383
FL	SUNRISE	SUNRISE, CITY OF	WNUJ665
FL	TALLAHASSEE	FLORIDA STATE UNIVERSITY	WPBR674
GA		GEORGIA, STATE OF	WPBN694
GA	BRUNSWICK	GEORGIA, STATE OF	WRD946
GA	BRUNSWICK	GEORGIA, STATE OF	WRD945
ID	CASCADE	IDAHO, STATE OF	WPAN862
ID	POCATELLO	BANNOCK, COUNTY OF	WPBA586
ID	POCATELLO	BANNOCK, COUNTY OF	WPBA586
ID	TWINFALLS	TWIN FALLS, CITY OF	WPET783
IL	ARCOLA	ARCOLA, CITY OF	WNVH545
IL	CHICAGO	ILLINOIS, STATE OF	WNRU667
IL	CHICAGO	ILLINOIS, STATE OF	WNRU669
IL	CHICAGO	ILLINOIS, STATE OF	WNRU666
IL	CHICAGO	ILLINOIS, STATE OF	WNRU668
IL	CHICAGO	ILLINOIS, STATE OF	WNIE334
IL	CHICAGO	ILLINOIS, STATE OF	WNIE334
IL	FAIRVIEW HEIGHTS	ILLINOIS, STATE OF	WNLN710
IL	HAMEL	ILLINOIS, STATE OF	WNLN710
IL	JOLIET	ILLINOIS, STATE OF	WNPT254
IL	MARINE	ILLINOIS, STATE OF	WNLN710
IL	MASCOUTAH	ILLINOIS, STATE OF	WNLN710
IL	MORRIS	ILLINOIS, STATE OF	WNPT254
IL	TROY	ILLINOIS, STATE OF	WNLN710
IL	UTICA	ILLINOIS, STATE OF	WNPT254
IL	WOODRIDGE	ILLINOIS, STATE OF	WNPT254
IN	CHESTERTON	INDIANA, STATE OF	WPDJ629
IN	HIGHLAND	LAKE, COUNTY OF	WNXY485
IN	MERRILLVILLE	INDIANA, STATE OF	WPCM815
IN	MICHIGAN CITY	INDIANA, STATE OF	WPCC899
IN	NOBLESVILLE	HAMILTON, COUNTY OF	WNZJ340
KS	CASSODAY	KANSAS TURNPIKE AUTHORITY	WPFT994
KS	ELDORADO	KANSAS TURNPIKE AUTHORITY	WPFT994
KS	WELLINGTON	KANSAS TURNPIKE AUTHORITY	WPFT994
KS	WICHITA	KANSAS TURNPIKE AUTHORITY	WPET707
KY	ELIZABETHTOWN	ELIZABETHTOWN TOURISM AND CONVENTION BUR.	WPCC677
KY	FRANKFORT	KENTUCKY, COMMONWEALTH OF	WNPM473
KY	LEWISPORT	HANCOCK, COUNTY OF	WNQM850
KY	LOUISVILLE	JEFFERSON, COUNTY OF	WNPQ955
KY	MOUNT VERNON	ROCKCASTLE, COUNTY OF	WNZD775
KY	WILLIAMSBURG	WILLIAMSBURG, CITY OF	WNPY751
LA	ARABI	ST. BERNARD, PARISH OF	WPBB491
LA	CHALMETTE	ST. BERNARD, PARISH OF	WPBB491
LA	KENNER	NEW ORLEANS, CITY OF	WNKX209
LA	MERAUX	ST. BERNARD, PARISH OF	WPBB491
LA	MERAUX	ST. BERNARD, PARISH OF	WPAC340
LA	NEW ORLEANS	NEW ORLEANS, CITY OF	WNSU867
LA	POYDRAS	ST. BERNARD, PARISH OF	WPBB491
LA	ST. FRANCISVILLE	ST. FRANCISVILLE, TOWN OF	WNQU735
LA	ST. FRANCISVILLE	ST. FRANCISVILLE, TOWN OF	WNQU735
LA	VERRET	ST. BERNARD, PARISH OF	WPBB491
LA	YSCOLSKEY	ST. BERNARD, PARISH OF	WPBB491
MA		MASSACHUSETTS TURNPIKE	WPBE367
MA	TYNGSBOROUGH	NEW HAMPSHIRE, STATE OF	WNUE384
MD		MARYLAND, STATE OF	KNJX865
MD	ARNOLD	MARYLAND, STATE OF	WNQA286
MD	BALTIMORE	MARYLAND, STATE OF	WNAL785
MD	BALTIMORE	MARYLAND, STATE OF	WNVP742
MD	BERWYN	MARYLAND, STATE OF	WNQI569
MD	BRADSHAW	MARYLAND, STATE OF	WNVY509
MD	CAMBRIDGE	MARYLAND, STATE OF	WPED444
MD	COOKSVILLE	MARYLAND, STATE OF	WPEW741
MD	CUMBERLAND	MARYLAND, STATE OF	WNQA284
MD	DARGAN	WASHINGTON, COUNTY OF	WNRZ820
MD	DENTON	MARYLAND, STATE OF	WNQA288
MD	DORSEY	MARYLAND, STATE OF	WNVY506
MD	DOWNSVILLE	WASHINGTON, COUNTY OF	WNRZ820
MD	EASTON	MARYLAND, STATE OF	WNQA290
MD	ELKTON	MARYLAND, STATE OF	WPEP712
MD	ELLICOTT CITY	MARYLAND, STATE OF	WNVP741
MD	FOURLOCKS	WASHINGTON, COUNTY OF	WNRZ820
MD	FREDERICK	MARYLAND, STATE OF	WNVY510
MD	KENT NARROWS	MARYLAND, STATE OF	WNAL786
MD	LARGO	MARYLAND, STATE OF	WNVY508
MD	MYERSVILLE	MARYLAND, STATE OF	WNQA287
MD	OCEAN CITY	MARYLAND, STATE OF	WPEW740
MD	OCEAN CITY	MARYLAND, STATE OF	WPFJ882
MD	PINEYGROVE	MARYLAND, STATE OF	WNQA285
MD	QUEENSTOWN	MARYLAND, STATE OF	WNQA289
MD	REISTERTOWN	MARYLAND, STATE OF	WPEW742

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MD	WILLIAMSPORT	MARYLAND, STATE OF	WNSL338
MI	CLIO	MICHIGAN, STATE OF	WNLH734
MI	HOLLAND	HOLLAND, CITY OF	WNMQ279
MI	OSHTEMO	KALAMAZOO, COUNTY OF	WPAM594
MI	ST. IGNACE	MICHIGAN, STATE OF	WNHC787
MI	SENEY	SENEY, TOWNSHIP OF	WPBQ958
MN		MINNESOTA, STATE OF	WPBX286
MN		MINNESOTA, STATE OF	WNZM463
MN	ALBERTVILLE	MINNESOTA, STATE OF	WPAL378
MN	FARIBAULT	MINNESOTA, STATE OF	WNSC295
MN	HINCKLEY	HINCKLEY, CITY OF	WNPZ434
MO	ARNOLD	ILLINOIS, STATE OF	WNLN711
MO	PEARLESS PARK	ILLINOIS, STATE OF	WNLN711
MO	ST. CHARLES	ILLINOIS, STATE OF	WNLN711
MO	TOWN AND COUNTRY	ILLINOIS, STATE OF	WNLN711
MT	BOZEMAN	MONTANA, STATE OF	WPEY666
MT	BUTTE	MONTANA, STATE OF	WPEY666
MT	HAMILTON	MONTANA, STATE OF	WNUI261
MT	KALISPELL	MONTANA, STATE OF	WNPI850
MT	LIBBY	MONTANA, STATE OF	WNPI850
MT	LIVINSTON	MONTANA, STATE OF	WPEY666
MT	MISSOULA	MONTANA, STATE OF	WNXE301
MT	NOXON	MONTANA, STATE OF	WNPI850
MT	ST. REGIS	MONTANA, STATE OF	WNYA375
MT	TROY	MONTANA, STATE OF	WNPI850
MT	WHITEHALL	MONTANA, STATE OF	WPEY666
NC	CHARLOTTE	CHARLOTTE DOUGLAS INTERNATIONAL AIRPORT	WNNV615
NC	CHIMNEYROCK	LAKELURE, TOWN OF	WNQZ543
NC	COVE CREEK	NORTH CAROLINA, STATE OF	WNZD779
NC	CROOKED OAK	NORTH CAROLINA, STATE OF	WNZD779
NC	GILLESPIE GAP	NORTH CAROLINA, STATE OF	WNXE972
NC	GROVER	NORTH CAROLINA, STATE OF	WNZD779
NC	HICKORY	HICKORY, CITY OF	WNQC672
NC	INGALLS	NORTH CAROLINA, STATE OF	WNXE972
NC	MARION	MCDOWELL, COUNTY OF	WNSH541
NC	MCDONALD	NORTH CAROLINA, STATE OF	WNZD783
NC	RALEIGH	RALEIGH, CITY OF	WNSS719
NC	SPRUCEPINE	NORTH CAROLINA, STATE OF	WNXE972
NC	TRYON	NORTH CAROLINA, STATE OF	WNZD779
NC	WARRENTON	NORTH CAROLINA, STATE OF	WNZD779
NC	WELDON	NORTH CAROLINA, STATE OF	WNZD783
NC		NORTH CAROLINA, STATE OF	WPBJ465
NC	CHARLOTTE	NORTH CAROLINA, STATE OF	WNZD779
ND	WEST FARGO	CASS, COUNTY OF	WNWM881
NE	OGALLALA	OGALLALA, CITY OF	WNNV876
NJ		PORT AUTHORITY OF NEW YORK & NEW JERSEY	WNRM770
NJ		NEW JERSEY TURNPIKE AUTHORITY	WPAS759
NJ	ALLAMUCHY	NEW JERSEY, STATE OF	WNPX698
NJ	CAMDEN	DELAWARE RIVERPORT AUTHORITY	WPBN697
NJ	MOUNTAINVIEW	NEW JERSEY, STATE OF	WNPX698
NJ	NEWARK	PORT AUTHORITY OF NEW YORK & NEW JERSEY	WNDF923
NJ	PARAMUS	NEWJERSEY, STATE OF	WPAM592
NJ	ROSELAND	NEWJERSEY, STATE OF	WNPX698
NM	CARLSBAD	NEW MEXICO, STATE OF	WNXJ364
NM	CENTRAL	NEW MEXICO, STATE OF	WNXE619
NM	CUERVO	NEW MEXICO, STATE OF	WNWU971
NM	LAS CRUCES	NEW MEXICO, STATE OF	WNXE619
NM	LORDSBURG	NEW MEXICO, STATE OF	WNXE619
NM	POJOAQUE	NEW MEXICO, STATE OF	WNWU971
NM	PORTALES	NEW MEXICO, STATE OF	WNWU971
NM	RATON	NEW MEXICO, STATE OF	WNWU971
NM	ROSWELL	NEW MEXICO, STATE OF	WNWU972
NM	SAN ANTONIO	NEW MEXICO, STATE OF	WNXE619
NM	SAN JUAN	NEW MEXICO, STATE OF	WNWU971
NM	SAN TAFE	NEW MEXICO, STATE OF	WNRO290
NM	TAIBAN	NEW MEXICO, STATE OF	WNWU972
NM	TAOS	NEW MEXICO, STATE OF	WNWU971
NM	TRUTH OR CONSEQUENCE	NEW MEXICO, STATE OF	WNXE619
NM	TULAROSA	NEW MEXICO, STATE OF	WNXE619
NV	CARSON CITY	CARSON CITY, CITY OF	WPFM427
NV	LAS VEGAS	CLARK, COUNTY OF	WNRM758
NY		PORT AUTHORITY OF NEW YORK & NEW JERSEY	WNRM770
NY		WESTCHESTER, COUNTY OF	WNUC547
NY	ALBANY	NEW YORK, STATE OF	WNVL392
NY	BIG FLATS	CHEMUNG, COUNTY OF	WNMM725
NY	ELMIRA	CHEMUNG, COUNTY OF	WNMM725
NY	LOWMAN	CHEMUNG, COUNTY OF	WNMM725
NY	NEW YORK	PORT AUTHORITY OF NEW YORK & NEW JERSEY	KNAA585
NY	SPRING VALLEY	NEW YORK, STATE OF	WNYG610
NY	SYRACUSE	SYRACUSE HANCOCK INTERNATIONAL AIRPORT	WNYS687
NY	TARRYTOWN	NEW YORK, STATE OF	WNYG610
NY	TARRYTOWN	NEW YORK, STATE OF	WNYS574
NY	WEST NYACK	NEW YORK, STATE OF	WNYG610
NY	WHITE PLAINS	NEW YORK STATE THRUWAY AUTHORITY	WPFD964
NY		NEW YORK, STATE OF	WPFI377
OH	DAYTON	MONTGOMERY, COUNTY OF	WNGE271
OH	DUBLIN	DUBLIN, CITY OF	WNSQ909
OH	FREMONT	SANDUSKY, COUNTY OF	WNWR930
OH	PIQUA	OHIO, STATE OF	WNML971
OK		OKLAHOMA, STATE OF	WNWU499
OK	HASKELL	WAGONER, COUNTY OF	WPDD388
OR		OREGON, STATE OF	WNFP221
OR	ASTORIA	ASTORIA, CITY OF	WPBX496
OR	CURTIN	OREGON STATE UNIVERSITY	WPFI870
OR	GOVERNMENT CAMP	CLACKAMAS, COUNTY OF	WNSQ450
OR	JEWELL	OREGON, STATE OF	WPAF800
OR	NEWPORT	NEWPORT, CITY OF	WNVN277
OR	WALTERVILLE	OREGON, STATE OF	WNSQ948
PA		PENNSYLVANIA, COMMONWEALTH OF	WPDX548
PA		PENNSYLVANIA, COMMONWEALTH OF	WPEA856
PA	BEDFORD	BEDFORD, COUNTY OF	WPAM593
PA	DELAWARE WATER GAP	MONROE, COUNTY OF	WNZS755
PA	FRANKLIN TOWNSHIP	PENNSYLVANIA, COMMONWEALTH OF	WNRW290
PA	MOUNT COBB	PENNSYLVANIA, COMMONWEALTH OF	WPEX992
PA	PHILADELPHIA	DELAWARE RIVER PORT AUTHORITY	WPBN697
PA	WASHINGTON TOWNSHIP	PENNSYLVANIA, COMMONWEALTH OF	WNRW290
PA	WILKES BARRE	PENNSYLVANIA, COMMONWEALTH OF	WPBG740
PR	SAN JUAN	SAN JUAN, CITY OF	WNXW737
SC	CHARLESTON	CHARLESTON, CITY OF	WNKW629
SC	CHARLESTON	CHARLESTON, COUNTY OF	WNVZ342
SC	CLEMSON	CLEMSON, CITY OF	WNPI486
TN	CHARLESTON	TENNESSEE, STATE OF	WPED202
TN	MONTEAGLE	TENNESSEE, STATE OF	WNRU474
TX		TEXAS, STATE OF	WNVF737
TX	BEAUMONT	TEXAS, STATE OF	WPAX200
TX	DEER PARK	DEER PARK, CITY OF	WNVI202
TX	DENTON	UNIVERSITY OF NORTH TEXAS	WNQQ964
TX	HOUSTON	HOUSTON, CITY OF	WNLZ915
TX	LANGTRY	TEXAS, STATE OF	WNLV768
TX	NEW BRAUNFELS	NEW BRAUNFELS, CITY OF	WNQT264
TX	PORT ARANSAS	TEXAS, STATE OF	WNKS900
TX	PRESIDIO	PRESIDIO, CITY OF	WPDY853
TX	VICTORIA	VICTORIA, CITY OF	WNUH548
US		NEW YORK, STATE OF	WPCP724
US		NEW YORK, STATE OF	WPCP724
US		NEW YORK, STATE OF	WPCP724
UT	ALTA	ALTA, TOWN OF	WNVF736
UT	ALTA	ALTA, TOWN OF	WNVF736
UT	ST. GEORGE	WASHINGTON, COUNTY OF	WPBF898
UT	SALT LAKE CITY	UNIVERSITY OF UTAH	WPED203
VA		VIRGINIA; COMMONWEALTH OF	WPDF247
VA	ASHLAND	VIRGINIA, COMMONWEALTH OF	WQC883
VA	CARMELS CHURCH	VIRGINIA, COMMONWEALTH OF	WQC884
VA	CHESAPEAKE	VIRGINIA, COMMONWEALTH OF	KNJR838
VA	CHINCOTEAGUE	CHINCOTEAGUE, TOWN OF	WPDY959
VA	DOSWELL	VIRGINIA, COMMONWEALTH OF	WQC885
VA	HAMPTON	VIRGINIA, COMMONWEALTH OF	KNJR839
VA	HERNDON	METROPOLITAN WASHINGTON AIRPORTS AUTH.	WNPM480
VA	HERNDON	METROPOLITAN WASHINGTON AIRPORTS AUTH.	WNPM480
VA	HERNDON	METROPOLITAN WASHINGTON AIRPORTS AUTH.	WNPM480
VA	MANASSAS	PRINCE WILLIAM, COUNTY OF	WNHQ463
VA	NEWMARKET	VIRGINIA, COMMONWEALTH OF	WPBM597
VA	NEWPORT NEWS	VIRGINIA, COMMONWEALTH OF	KNJR837
VA	NORFOLK	VIRGINIA, COMMONWEALTH OF	WNAN682
VA	POTOMAC MILLS PROJECT	PRINCE WILLIAM, COUNTY OF	WNBZ973
VA	RICHMOND	VIRGINIA, COMMONWEALTH OF	WYR507
VA	RICHMOND	RICHMOND, CITY OF	WNWW277
VA	RICHMOND	VIRGINIA, COMMONWEALTH OF	WYR509
VA	RICHMOND	VIRGINIA, COMMONWEALTH OF	WYR508
VA	RICHMOND	VIRGINIA, COMMONWEALTH OF	WYR510
VA	VIRGINIA BEACH	VIRGINIA, COMMONWEALTH OF	KNJR840
VA	VIRGINIA BEACH	VIRGINIA, COMMONWEALTH OF	KNJR841
WA		WASHINGTON, STATE OF	WNVA814
WA	BELLEVUE	WASHINGTON, STATE OF	KNEZ390
WA	FRIDAY HARBOR	WASHINGTON, STATE OF	WPEZ424
WA	GIG HARBOR	GIG HARBOR, CITY OF	WPAE812
WA	LACEY	OLYMPIC AIR POLLUTION CONTROL AUTHORITY	WPBX206
WA	LYNNWOOD	WASHINGTON, STATE OF	WNHC789
WA	MOSES LAKE	MOSES LAKE, CITY OF	WNVQ844
WA	NEWPORT	PENDOREILLE, COUNTY OF	WPDY708
WA	NEWPORT	PENDOREILLE, COUNTY OF	WPDW646
WA	RITZVILLE	RITZVILLE, CITY OF	WNYD255
WA	SEATTLE	WASHINGTON, STATE OF	KNEZ390
WA	SEATTLE	WASHINGTON, STATE OF	KNEZ390
WA	SEATTLE	WASHINGTON, STATE OF	KNEZ390
WA	TACOMA	TACOMA, CITY OF	WNAN648
WA	TUKWILA	WASHINGTON, STATE OF	KNCL518
WA	VASHON	WASHINGTON, STATE OF	WNRI857
WI	BARABOO	WISCONSIN, STATE OF	WNPI485
WI	BELOIT	WISCONSIN, STATE OF	WNPD487
WI	EDGERTON	WISCONSIN, STATE OF	WNPP716
WI	GREENBAY	BROWN, COUNTY OF	WNSA667
WI	HUDSON	WISCONSIN, STATE OF	WNPD487
WI	HURLEY	WISCONSIN, STATE OF	WNQD828
WI	JANESVILLE	WISCONSIN, STATE OF	WNPP716
WI	KEILER	WISCONSIN, STATE OF	WNPD487
WI	LA CROSSE	WISCONSIN, STATE OF	WNPD487
WI	MADISON	WISCONSIN, STATE OF	WNZG592
WI	MADISON	WISCONSIN, STATE OF	WNZG592
WI	MARINETTE	WISCONSIN, STATE OF	WNQD828
WI	MAUSTON	WISCONSIN, STATE OF	WNRW907
WI	OSHKOSH	WINNEBAGO, COUNTY OF	WNQN692
WI	POYNETTE	WISCONSIN, STATE OF	WNPP716
WI	PRAIRIE DUCHIEN	WISCONSIN, STATE OF	WNPD487
WI	SUPERIOR	WISCONSIN, STATE OF	WNQD828
WV	WASHINGTON	WOOD, COUNTY OF	WPBX694
WY	GILLETTE	GILLETTE, CITY OF	WNXC873